

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1-13 have been amended, claims 14-15 have been canceled and claims 16-29 have been added as follows:

Listing of Claims:

Claim 1 (currently amended): A method of producing a polyurethane foam sheet, comprising the steps of applying a liquid mixture, obtained by mixing together a heated and melted hot melt urethane prepolymer (A), with a number average molecular weight within a range of from 1,000 to 10,000 and containing isocyanate groups at molecular terminals, and a compound diol (B) containing at least 2 active hydrogen atom-containing groups, onto a substrate in a sheet-like manner, and water foaming said liquid mixture by bringing said sheet-like liquid mixture into contact with water vapor wherein

a ratio of a weight equivalence of active hydrogen atom-containing groups within said diol (B), relative to a weight equivalence of isocyanate groups within said hot melt urethane prepolymer (A) [isocyanate group equivalence / active hydrogen atom-containing group equivalence], is within a range from 1.5 to 20.0.

Claim 2 (currently amended): A method of producing a polyurethane foam sheet, comprising the steps of introducing a liquid mixture, obtained by mixing together a heated and melted hot melt

urethane prepolymer (A), with a number average molecular weight within a range from 1,000 to 10,000 and containing isocyanate groups at molecular terminals, and a compound diol (B) containing ~~at least 2 active hydrogen atom-containing groups~~, into a space between a first releasable substrate and a second releasable substrate to form a sheet-like product in a continuous manner, and water foaming said sheet-like product sandwiched between said first releasable substrate and said second releasable substrate by bringing either one surface or both surfaces of said releasable substrates into contact with water vapor, wherein

a ratio of a weight equivalence of active hydrogen atom-containing groups within said diol (B), relative to a weight equivalence of isocyanate groups within said hot melt urethane prepolymer (A) [isocyanate group equivalence / active hydrogen atom-containing group equivalence], is within a range from 1.5 to 20.0.

Claim 3 (currently amended): A method of producing a polyurethane foam sheet, comprising the steps of introducing a liquid mixture, obtained by mixing together a heated and melted hot melt urethane prepolymer (A), with a number of average molecular weight within a range from 1,000 to 10,000 and containing isocyanate groups at molecular terminals, and a compound diol (B) containing ~~at least 2 active hydrogen atom-containing groups~~, into a space between a first releasable substrate and a second releasable substrate to form a sheet-like product in a continuous manner, removing one of said first releasable substrate and said second releasable substrate, and water foaming said sheet-like product by bringing said sheet-like product into direct contact with water vapor, wherein

a ratio of a weight equivalence of active hydrogen atom-containing groups within said diol

(B), relative to a weight equivalence of isocyanate groups within said hot melt urethane prepolymer
(A) [isocyanate group equivalence / active hydrogen atom-containing group equivalence], is within
a range from 1.5 to 20.0.

Claim 4 (currently amended): A method of producing a polyurethane foam sheet according to ~~any one of claim 1 through claim 3~~ claim 1, wherein said liquid mixture is produced by mixing together said heated and melted hot melt urethane prepolymer (A), said ~~compound diol~~ (B), and a urethanization catalyst (C).

Claim 5 (currently amended): A method of producing a polyurethane foam sheet according to ~~any one of claim 1 through claim 3~~ claim 1, wherein said hot melt urethane prepolymer (A) is a hot melt urethane prepolymer (a-2) that also contains hydrolysable alkoxy silyl groups.

Claim 6 (currently amended): A method of producing a polyurethane foam sheet according to ~~any one of claim 1 through claim 3~~ claim 1, wherein an isocyanate group content within said hot melt urethane prepolymer (A) is within a range from 0.5 to 10.0% by weight.

Claim 7 (currently amended): A method of producing a polyurethane foam sheet according to ~~any one of claim 1 through claim 3~~ claim 1, wherein said hot melt urethane prepolymer (A) has a melt viscosity, measured at 125°C using a cone-plate viscometer, within a range from 100 to 100,000 mPa·s.

Claim 8 (currently amended): A method of producing a polyurethane foam laminated sheet, comprising the steps of applying a liquid mixture, obtained by mixing together a heated and melted hot melt urethane prepolymer (A), with a number average molecular weight within a range from 1,000 to 10,000 and containing isocyanate groups at molecular terminals, and a diol (B), onto a substrate in a sheet-like manner, water foaming said liquid mixture by bringing said sheet-like liquid mixture into contact with water vapor to form a polyurethane foam sheet, and bonding a third substrate onto said polyurethane foam sheet, according to any one of claim 1 through claim 3, wherein

a ratio of a weight equivalence of active hydrogen atom-containing groups within said compound diol (B) containing at least 2 active hydrogen atom-containing groups, relative to a weight equivalence of isocyanate groups within said hot melt urethane prepolymer (A) [isocyanate group equivalence / active hydrogen atom-containing group equivalence], is within a range from 1.5 to 20.0.

Claim 9 (currently amended): A method of producing a laminated sheet, comprising the steps of applying a liquid mixture, obtained by mixing together a heated and melted hot melt urethane prepolymer (A), with a number average molecular weight within a range from 1,000 to 10,000 and containing isocyanate groups at molecular terminals, and a compound diol (B) containing at least 2 active hydrogen atom-containing groups, onto a substrate in a sheet-like manner, water foaming said liquid mixture by bringing said sheet-like liquid mixture into contact with water vapor to form a polyurethane foam sheet, and bonding a third substrate onto said polyurethane foam

sheet, onto a substrate in a sheet-like manner, bonding a third substrate onto said sheet-like liquid mixture to form a laminate, and water foaming said liquid mixture by bringing said laminate into contact with water vapor, wherein

a ratio of a weight equivalence of active hydrogen atom-containing groups within said diol (B), relative to a weight equivalence of isocyanate groups within said hot melt urethane prepolymer (A) [isocyanate group equivalence / active hydrogen atom-containing group equivalence], is within a range from 1.5 to 20.0.

Claim 10 (currently amended): A method of producing a laminated sheet, comprising the steps of applying a liquid mixture, obtained by mixing together a heated and melted hot melt urethane prepolymer (A), with a number average molecular weight within a range from 1,000 to 10,000 and containing isocyanate groups at molecular terminals, and a compound diol (B) containing at least 2 active hydrogen atom-containing groups, onto a substrate in a sheet-like manner, bonding a third substrate onto said sheet-like liquid mixture to form a laminate, and water foaming said liquid mixture by bringing said laminate into contact with water vapor, into a space between a first resealable substrate and a second releasable substrate to form a sheet-like product in a continuous manner, removing one of said first releasable substrate and said second releaseable substrate, water foaming said sheet-like product by bringing an exposed surface of said sheet-like product, and/or a remaining first or second releasable substrate, into contact with water vapor to form a polyurethane form sheet, and bonding a third substrate to said exposed surface of said polyurethane foam sheet from which said first or second releasable substrate has been removed, wherein

a ratio of a weight equivalence of active hydrogen atom-containing groups within said diol (B), relative to a weight equivalence of isocyanate groups within said hot melt urethane prepolymer (A) [isocyanate group equivalence / active hydrogen atom-containing group equivalence], is within a range from 1.5 to 20.0.

Claim 11 (currently amended): A method of producing a laminated sheet, comprising the steps of introducing a liquid mixture, obtained by mixing together a heated and melted hot melt urethane prepolymer (A) containing isocyanate groups at molecular terminals, and a compound (B) containing at least 2 active hydrogen atom-containing groups, into a space between a first releasable substrate and a second releasable substrate to form a sheet-like product in a continuous manner; removing one of said first releasable substrate and said second releasable substrate, water foaming said sheet-like product by bringing an exposed surface of said sheet-like product, and/or a remaining first or second releasable substrate, into contact with water vapor to form a polyurethane foam sheet, and bonding a third substrate to said exposed surface of said polyurethane foam sheet from which said first or second releasable substrate has been removed according to claim 8, wherein said liquid mixture is produced by mixing together said heated and melted hot melt urethane prepolymer (A), said diol (B), and a urethanization catalyst (C).

Claim 12 (currently amended): A method of producing a laminated sheet according to any one of claim 9 through claim 11 claim 8, wherein said liquid mixture is produced by mixing together said heated and melted hot melt urethane prepolymer (A), said compound (B), and a urethanization

catalyst (C) is a hot melt urethane prepolymer (a-2) that also contains hydrolysable alkoxy silyl groups.

Claim 13 (currently amended): A method of producing a laminated sheet according to any one of claim 9 through claim 11 claim 8, wherein said hot melt urethane prepolymer (A) is a hot melt urethane prepolymer (a-2) that also contains hydrolysable alkoxy silyl groups an isocyanate group content within said hot melt urethane prepolymer (A) is within a range from 0.5 to 10% by weight.

Claim 14 (canceled)

Claim 15 (canceled)

Claim 16 (new): A method of producing a laminated sheet according to claim 9, wherein said liquid mixture is produced by mixing together said heated and melted hot melt urethane prepolymer (A), said diol (B), and a urethanization catalyst (C).

Claim 17 (new): A method of producing a laminated sheet according to claim 9, wherein said hot melt urethane prepolymer (A) is a hot melt urethane prepolymer (a-2) that also contains hydrolysable alkoxy silyl groups.

Claim 18 (new): A method of producing a laminated sheet according to claim 9, wherein groups an isocyanate group content within said hot melt urethane prepolymer (A) is within a range from 0.5 to 10% by weight.

Claim 19 (new): A method of producing a laminated sheet according to claim 10, wherein said liquid mixture is produced by mixing together said heated and melted hot melt urethane prepolymer (A), said diol (B), and a urethanization catalyst (C).

Claim 20 (new): A method of producing a laminated sheet according to claim 10, wherein said hot melt urethane prepolymer (A) is a hot melt urethane prepolymer (a-2) that also contains hydrolysable alkoxyisilyl groups.

Claim 21 (new): A method of producing a laminated sheet according to claim 10, wherein groups an isocyanate group content within said hot melt urethane prepolymer (A) is within a range from 0.5 to 10% by weight.

Claim 22 (new): A method of producing a polyurethane foam sheet according to claim 2, wherein said liquid mixture is produced by mixing together said heated and melted hot melt urethane prepolymer (A), said diol (B), and a urethanization catalyst (C).

Claim 23 (new): A method of producing a polyurethane foam sheet according to claim 2, wherein said hot melt urethane prepolymer (A) is a hot melt urethane prepolymer (a-2) that also contains hydrolysable alkoxy silyl groups.

Claim 24 (new): A method of producing a polyurethane foam sheet according to claim 2, wherein an isocyanate group content within said hot melt urethane prepolymer (A) is within a range from 0.5 to 10.0% by weight.

Claim 25 (new): A method of producing a polyurethane foam sheet according to claim 2, wherein said hot melt urethane prepolymer (A) has a melt viscosity, measured at 125°C using a cone-plate viscometer, within a range from 100 to 100,000 mPa·s.

Claim 26 (new): A method of producing a polyurethane foam sheet according to claim 3, wherein said liquid mixture is produced by mixing together said heated and melted hot melt urethane prepolymer (A), said diol (B), and a urethanization catalyst (C).

Claim 27 (new): A method of producing a polyurethane foam sheet according to claim 3, wherein said hot melt urethane prepolymer (A) is a hot melt urethane prepolymer (a-2) that also contains hydrolysable alkoxy silyl groups.

Claim 28 (new): A method of producing a polyurethane foam sheet according to claim 3, wherein an isocyanate group content within said hot melt urethane prepolymer (A) is within a range from 0.5 to 10.0% by weight.

Claim 29 (new): A method of producing a polyurethane foam sheet according to claim 3, wherein said hot melt urethane prepolymer (A) has a melt viscosity, measured at 125°C using a cone-plate viscometer, within a range from 100 to 100,000 mPa·s.